

Appln. No. Serial No. 10/777,821
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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A heat exchanger for exchanging heat between first and second coolants, comprising:
 - a first tube formed with a first flow passage through which the first coolant flows;
 - a plurality of second tube tubes, each formed with a second flow passage through which the second coolant flows, wherein the first tube is sandwiched between a first adjacent second tube and a second adjacent second tube;
 - a first inlet-connecting block connected to a first end of the first tube and having a first flow inlet communicating with the first flow passage;
 - a first outlet-connecting block connected to a second end of the first tube and having a first flow outlet communicating with the first flow passage;
 - a second inlet-connecting block connected to a first end of each of the second ~~tube~~ tubes and having a second flow inlet communicating with the second flow passage; and
 - a second outlet-connecting block connected to a second end of each of the second ~~tube~~ tubes and having a second flow outlet communicating with the second flow passage;wherein the first tube and the second tubes are disposed such that the first and second flow passages are substantially perpendicular to one another.

2. (Currently Amended) The heat exchanger according to claim 1, wherein the first ~~tube~~ and second ~~tubes include pluralities~~ includes a plurality of pieces of tubes, respectively.

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3. (Canceled).

4. (Currently Amended) The heat exchanger according to ~~claim 3~~ claim 2, wherein the first tubes are disposed in parallel to one another along a longitudinal direction of the heat exchanger, and the second tubes are disposed in parallel to one another along a vertical direction of the heat exchanger.

5. (Original) The heat exchanger according to claim 4, wherein the second tubes include an inflow tube group and an outflow tube group, and tubes that belong to the inflow tube group have first ends connected to the second inlet-connecting block and second ends connected to a terminal connecting block while tubes that belong to the outflow tube group have first ends connected to the terminal connecting block and second ends connected to the second outlet-connecting block.

6-12. (Canceled).

13. (New) A heat exchanger for exchanging heat between first and second coolants, comprising:

a plurality of first tubes each formed with a first flow passage through which the first coolant flows;

a plurality of second tubes each formed with a second flow passage through which the second coolant flows;

a first inlet-connecting block connected to a first end of each first tube and having a first flow inlet communicating with each first flow passage;

a first outlet-connecting block connected to a second end of each first tube and having a first flow outlet communicating with each first flow passage;

a second inlet-connecting block connected to a first end of each second tube and

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having a second flow inlet communicating with each second flow passage; and

a second outlet-connecting block connected to a second end of each second tube and having a second flow outlet communicating with each second flow passage;

wherein the first and second tubes are disposed such that the first and second flow passages are substantially perpendicular to one another, and

the second tubes include an inflow tube group and an outflow tube group, and tubes that belong to the inflow tube group have first ends connected to the second inlet-connecting block and second ends connected to a terminal connecting block while tubes that belong to the outflow tube group have first ends connected to the terminal connecting block and second ends connected to the second outlet-connecting block.